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Patent No. 645-143

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT OPERATION

Applicants: )  
Hiroyuki Minamikawa et al. ) Examiner: Karl Group  
Serial Number: 09/841,614 )  
Filing Date: April 24, 2001 )

Title: LOW EXPANSION TRANSPARENT GLASS-CERAMICS, GLASS-CERAMIC SUBSTRATE AND  
OPTICAL WAVEGUIDE ELEMENT

New York, NY 10036  
December 24, 2003

Mail Stop Non-Fee Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT

This Amendment is being filed in response to the Office Action that was  
mailed June 25, 2003. Kindly amend the above identified application as  
follows: